

THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A position control method for feed drive equipment for a machine tool in which a plurality of screws are disposed in parallel and side-by-side for feeding a movable body associated with the machine tool, the screws being individually driven by servo motors, the position control method comprising:

determining torque of the servo motors as they drive the screws, and
correcting position commands of at least one servo motor in dependence on the determined torque so that the servo motors have matching torque.

2. (Previously presented) A position control method for feed drive equipment according to claim 1, wherein torque of the servo motors are matched to an average of the determined torque.

3. (Previously presented) A position control method for feed drive equipment according to claim 1, wherein torque of one servo motor is matched to the determined torque of another servo motor.

4. (Previously presented) A position control method for feed drive equipment according to claim 1, wherein a value of a torque command to be input to a current controller of each servo motor is determined as the torque of the servo motor.

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5. (Currently amended) A position control system for feed drive equipment for a machine tool in which a plurality of screws are disposed in parallel and side-by-side for feeding a movable body associated with the machine tool, the screws being individually driven by servo motors, the position control system comprising:

a controller operatively associated with the screws through the servo motors and adapted to determine torque of the servo motors, and adapted to correct position commands of at least one servo motor in dependence on the determined torque so that the servo motors have matching torque.

6. (Previously presented) A position control system for feed drive equipment according to claim 5, wherein the controller makes torque of the servo motors match to an average of the determined torque.

7. (Previously presented) A position control system for feed drive equipment according to claim 5, wherein the controller makes torque of one servo motor match to the determined torque of another servo motor.

8. (Previously presented) A position control system for feed drive equipment according to claim 5, wherein the controller determines a value of a torque command to be input to a current controller of each servo motor, as the torque of the servo motor.

9. (Previously presented) A position control system for feed drive equipment according to claim 5, further comprising:

a plurality of feed nuts associated with the screws, the moveable body being attached to the feed nuts, wherein the feed nuts apply torque to the servo motors through the screws.

10. (Currently amended) A feed drive system for a tooling machine, comprising:

a plurality of feed drive mechanisms disposed in parallel and side-by-side and associated with the tooling machine;

a movable body associated with the feed drive mechanisms, and adapted to be fed along the feed drive mechanisms;

servo motors associated with the feed drive mechanisms, and adapted to individually drive the feed drive mechanisms;

a controller adapted to determine torque of the servo motors, and adapted to correct position commands of at least one servo motor in dependence on the determined torque so that the servo motors have matching torque.

11. (Currently amended) A ~~position-control method for feed drive~~ system ~~equipment~~ according to claim 10, wherein the controller makes torque of the servo motors match ~~are matched~~ to an average of the determined torque.

12. (Currently amended) A ~~position-control method for feed drive~~ system ~~equipment~~ according to claim 10, wherein the controller makes torque of one servo motor match ~~is matched~~ to the determined torque of another servo motor.

13. (Currently amended) A ~~position control method for feed drive system~~ equipment according to claim 10, wherein the controller determines a value of a torque command to be input to a current controller of each servo motor ~~is determined~~ as the torque of the servo motor.

14. (New) A feed drive system according to claim 10, wherein the servo motors include first and second servo motors, and the controller comprises a corrector configured to add a correction value to a position command value configured to control the second servo motor so the difference between torque of the first and second servo motors is zero.

15. (New) A feed drive system according to claim 10, wherein the servo motors include first and second servo motors, the feed drive system further comprising a calculator configured to generate a correction value for correcting a position command to be given to the second servo motor so that a difference between torque of the first servo motor and torque of the second servo motor becomes zero.